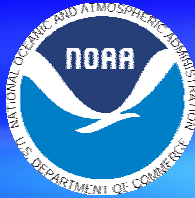




2004 Satellite Direct Readout Conference

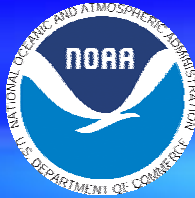


International Coordination and Collaboration

Gregory W. Withee

**Assistant Administrator for Satellite and Information Services
National Oceanic and Atmospheric Administration**

December 7, 2004



Outline

- **Decade of Opportunity**
 - **A Focus on GEO**
 - **NOAA's Continuity of Products and Service**
- **Current Access to NOAA Satellites in the Western Hemisphere**
- **Future Access to NOAA Satellites in the Western Hemisphere**





A Decade of Opportunity

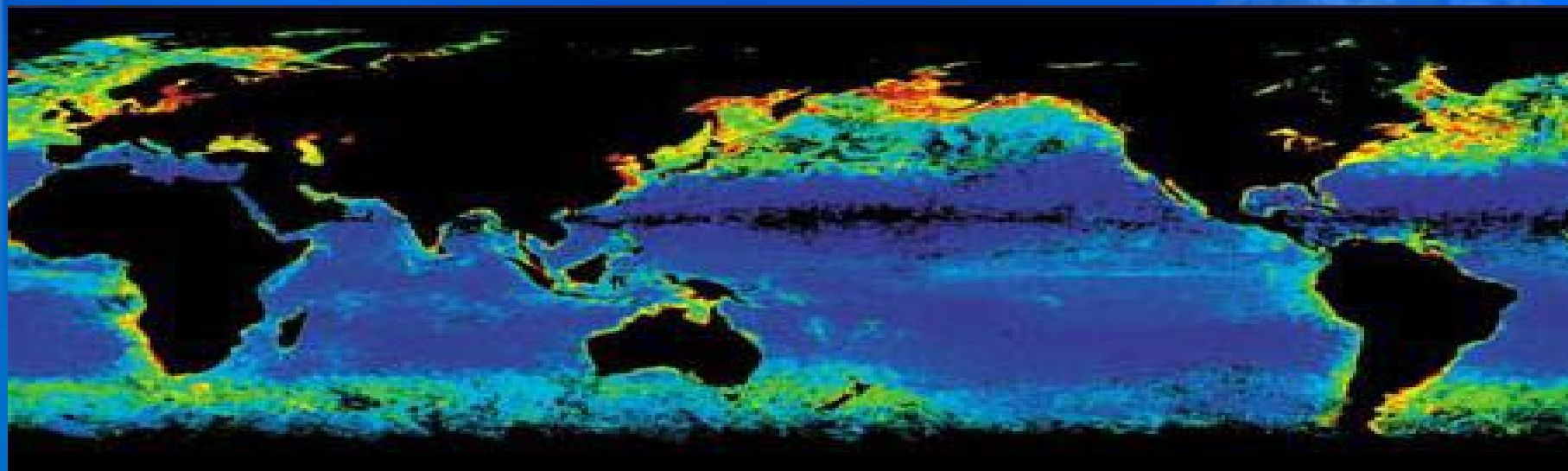




A Decade of Environmental Observations

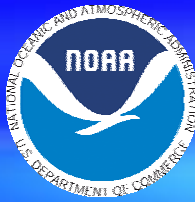


- **In the next 10 years, over 100 Earth observing satellites will be launched**
- **Few integrated plans exist to utilize these data and transfer these benefits to society**
- **We must focus on utilization of satellite data to realistically achieve these benefits**





Earth Observation Summits I and II





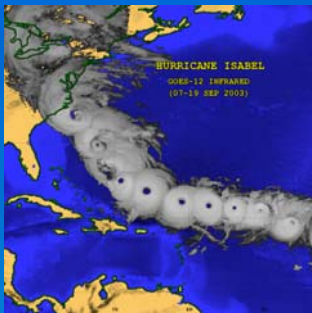
GEO Societal Benefits Focus



Natural &
Human Induced
Disasters



Human Health
& Well-Being



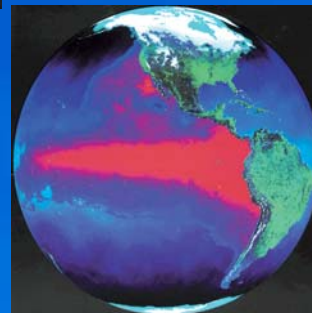
Weather
Information,
Forecasting



Energy
Resources



Water
Resources



Climate Variability
& Change



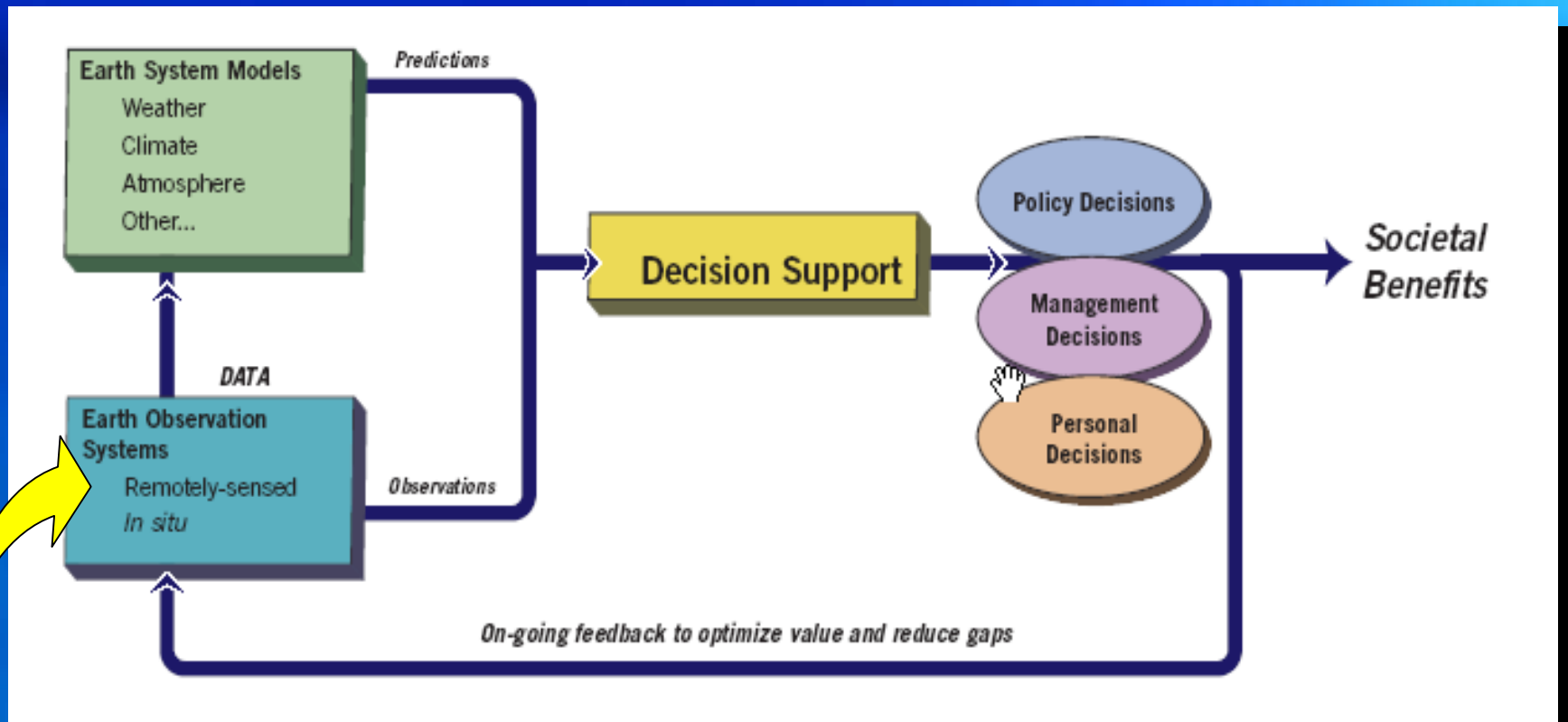
Sustainable
Agriculture &
Desertification



Terrestrial, Coastal
& Marine
Ecosystems



Biodiversity





Global Earth Observing System of Systems (GEOSS) Opportunities

- **International cooperation - backbone of critical measurements**
- **Sharing of data from all GEO systems**
- **Recognition of importance of capacity building**
- **Requirement for continuity of observations from space**
- **Coordination of mission planning (WMO, CEOS, etc.) including smoother transition of research missions**



U.S. Contribution to GEOSS



Vision:

Enable a healthy public, economy, and planet through an integrated, comprehensive, and sustained Earth observation system.

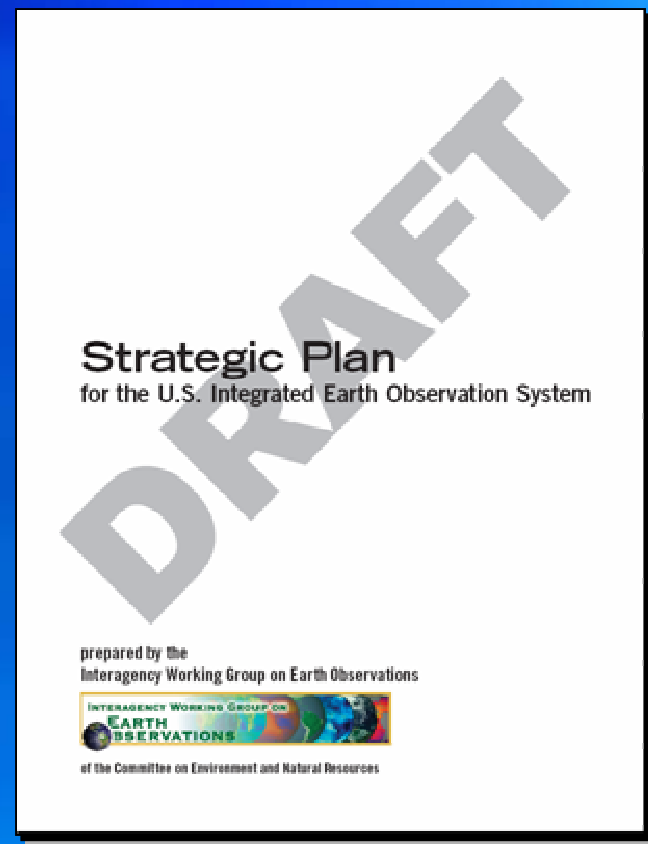
National Plan:

Public comment period until November 30, 2004

- Electronic comments only
- Available at <http://iwgeo.ssc.nasa.gov/>
- 2005 Workshop

Establish Formal USG Mechanism

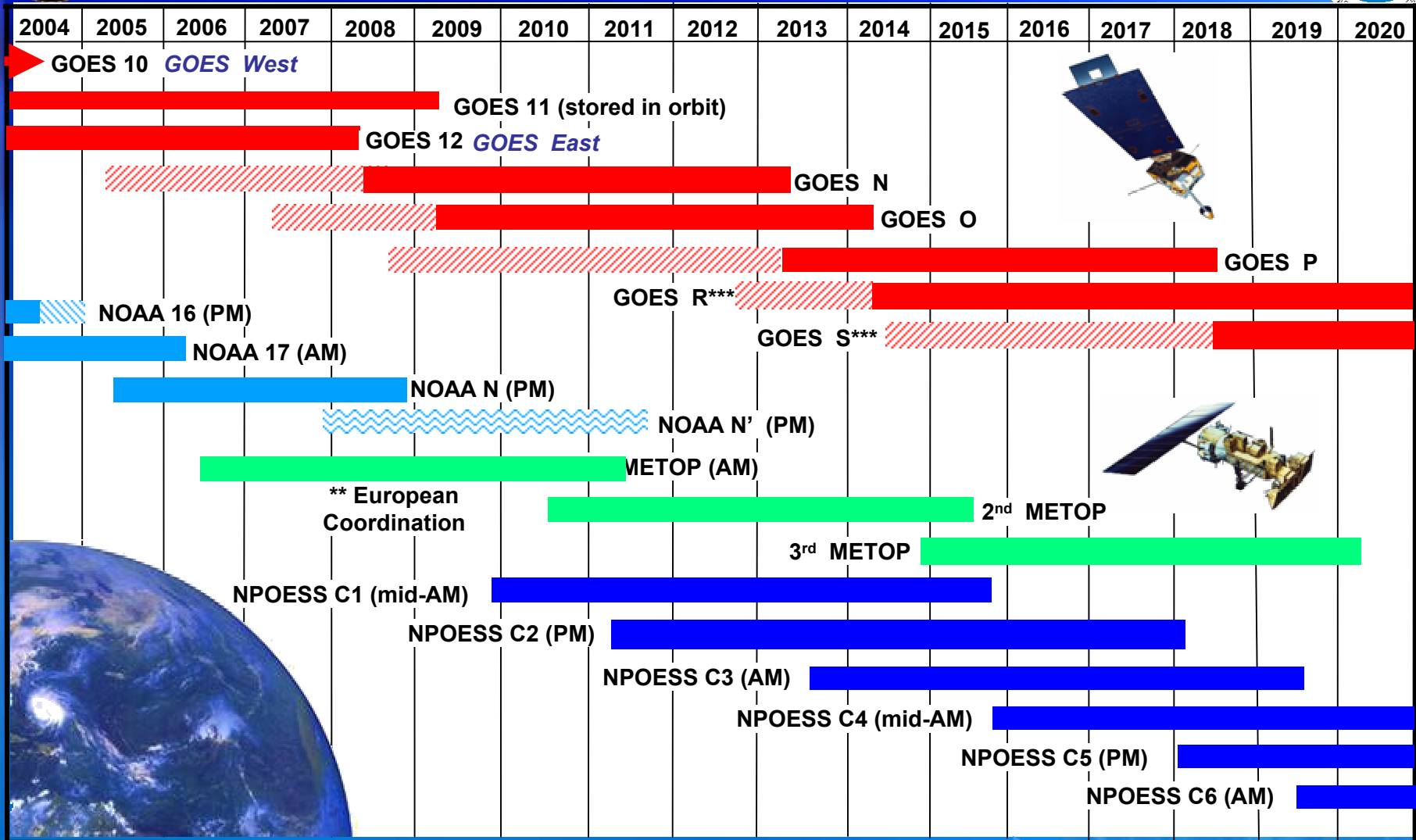
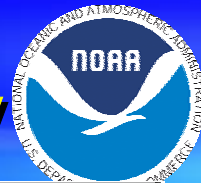
- Capable of committing necessary resources and implementing functions





Continuity of Operational Satellite Programs

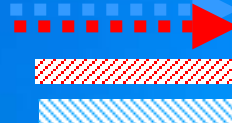
NOAA Satellite Launches* Scheduled to Maintain Continuity



* Actual launch dates are determined by the failure of on-orbit assets

** Assumes METOP will provide the morning orbit and NOAA-N' will provide afternoon orbit instruments

*** GOES R-Series may be single or suite of satellites (distributed constellation)



Satellite is operational beyond design life

On-orbit GOES storage

Extended operation



Current Access to NOAA Satellites



Services in the Western Hemisphere use (non-US):

130 GOES GVAR Sites

3860 Data Collection Platforms

~ 1000 POES APT; ~ 400 POES HRPT

Central South America and Caribbean:

58 GOES GVAR Sites

1781 Data Collection Platforms (GOES)

~ 450 POES APT; ~ 150 POES HRPT

Canada:

15 GOES GVAR Sites

2079 Data Collection Platforms

World Wide Estimates:

APT = 5,000 – 10,000

HRPT = 1,000 – 2,000

HR / GVAR = 1,000 – 2,000

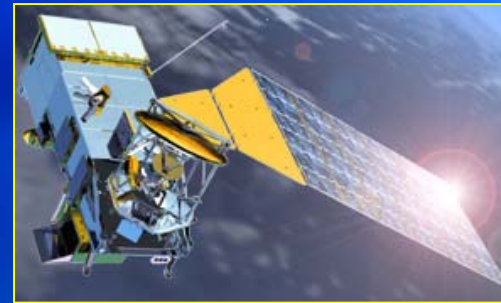
POES Data Collection Platforms – 12,000





On-going Dialogue with Western Hemisphere Users to Increase Access to NOAA Satellites

- **Facilitate upgrades**
- **Technical assistance**
- **Conduct necessary training**
- **Develop and exchange algorithms**
- **Promote scientific exchange and cooperation**





Opportunities Through Partnerships

